



| TYPICAL CONFIGURATIONS |                               |                |                               |                |                               |
|------------------------|-------------------------------|----------------|-------------------------------|----------------|-------------------------------|
| AVOX P/N               | Est. Weight<br>lbs. (Kg) Full | AVOX P/N       | Est. Weight<br>lbs. (Kg) Full | AVOX P/N       | Est. Weight<br>lbs. (Kg) Full |
| 3552AAAAACXCD          | 4.84 (2.20)                   | 3552BAAAAACXCD | 4.18 (1.90)                   | 3552CAAAACXCD  | 3.25 (1.48)                   |
| 3552AAADAACXCD         | 4.86 (2.21)                   | 3552BAADAACXCD | 4.20 (1.91)                   | 3552CAADAACXCD | 3.32 (1.51)                   |
| 3552AAAWAACXCD         | 4.60 (2.09)                   | 3552BAAWAACXCD | 3.85 (1.75)                   | 3552CAAWAACXCD | 3.05 (1.38)                   |

**WARNING**

IMPROPER USE OR IMPROPER MAINTENANCE OF THIS EQUIPMENT MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

THIS EQUIPMENT IS INTENDED TO BE USED ONLY FOR AVIATION APPLICATIONS AND IS TO BE USED ONLY BY, OR UNDER THE SUPERVISION OF, A PILOT OR CREW MEMBER TRAINED AND QUALIFIED IN ITS USE.

THIS EQUIPMENT IS TO BE SERVICED ONLY IN ACCORDANCE WITH THE APPLICABLE COMPONENT MAINTENANCE MANUAL

AVAILABLE FROM AVOX SYSTEMS AND ONLY BY SERVICE TECHNICIANS TRAINED IN THE INHERENT HAZARDS OF HIGH-PRESSURE AVIATION OXYGEN AND KNOWLEDGEABLE IN THIS EQUIPMENT.

THE NAMES OF AUTHORIZED SERVICE CENTERS ARE AVAILABLE FROM AVOX SYSTEMS OR YOUR AUTHORIZED AVOX SYSTEMS DISTRIBUTOR. THIS EQUIPMENT SHALL BE USED ONLY WITH AVIATOR'S BREATHING OXYGEN MEETING THE REQUIREMENTS OF MIL-PRF-27210.



**AVOX Systems**

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Oxygen and life support

Oxygen and life support



# Portable Oxygen Cylinder Assembly (POCA)



The Portable Oxygen Cylinder Assembly (POCA) is a lightweight oxygen source for crew members and/or passengers. Each POCA is self-contained and features a manually operated regulator. The lightweight composite cylinder consists of a thin-walled, seamless aluminum alloy liner reinforced by a full over-wrapping of carbon fiber sealed in epoxy. Internal gas volume is nominally 4, 7 or 11 cu. ft., with a rated service pressure of 1850 psig (12.76 MPa). The cylinder is qualified to meet both Department of Transportation (DOT-E-10915) and Canadian Transport Commission (CTC) requirements.



**AVOX Systems**



AIRCRAFT SYSTEMS SEGMENT

Oxygen Equipment  
Commercial



Portable Oxygen Cylinder Assembly (POCA)

OUTSTANDING FEATURES

- Operating temperature: +5°F to +158°F (-15°C to +70°C)
- Storage temperature: -67°F to +185°F (-55°C to +85°C)
- Cylinders meet both DOT and CTC requirements
- A relief valve protects the low-pressure system from over-pressurization
- Fingertip-controlled on-off valve
- Pressure gauge indicates oxygen supply
- High-pressure safety relief device
- Pressure regulator
- Carrying strap
- Mask stowage bags to accommodate one to two masks available
- Up to two flow positions with a single outlet
- Indication window shows selected flow rate



ORDERING INFORMATION

355 is the basic model number. This chart illustrates the combinations that are available. To order, fill in the necessary callout codes needed to indicate the complete part number. For further information regarding cylinders, outlets, masks, etc., contact AVOX Systems.

SAMPLE PART NUMBER: 3552AAAAACXCD

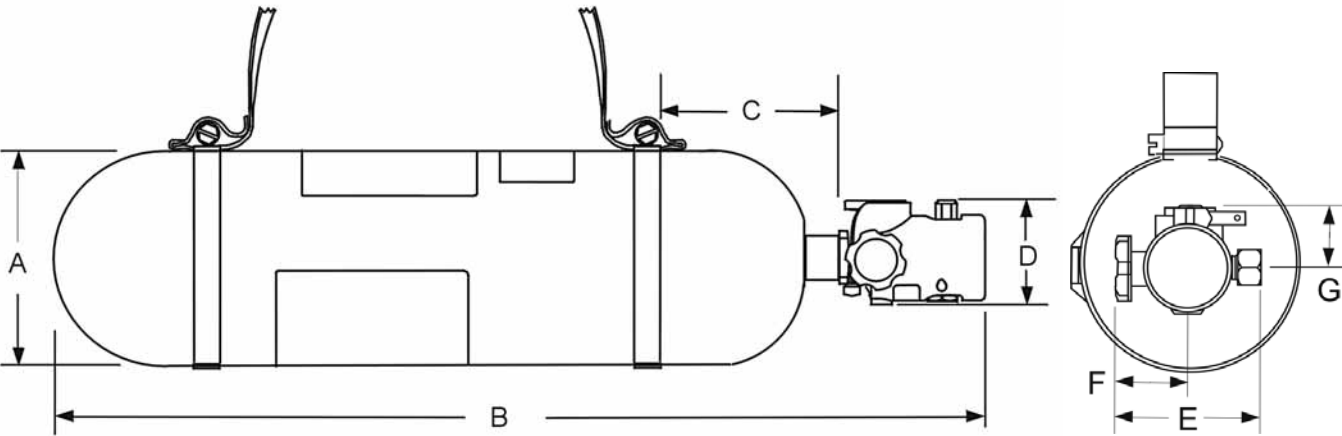
|              |  |   |  |   |  |   |   |   |
|--------------|--|---|--|---|--|---|---|---|
| 3552*        |  | A |  | A |  | X | C | D |
| Basic Series |  |   |  |   |  |   |   |   |

| CYLINDER     |                                   | CYLINDER FINISH |                     | SLING STRAP  |                 | STOWAGE BAG  |                             |             |                   |                        |
|--------------|-----------------------------------|-----------------|---------------------|--------------|-----------------|--------------|-----------------------------|-------------|-------------------|------------------------|
| Callout Code | Cylinder Capacity (cu.ft./liters) | Callout Code    | Cylinder Finish     | Callout Code | Sling Strap P/N | Callout Code | Stowage Bag & Mask Assembly | Description | Bag & Tube Length | Mates w/ Outlet P/N    |
| A            | 11.0/311                          | A               | Green (FED STD-595) | A            | 10014024        | A            | 806477-01                   | Small Bag   | 54 in             | 806483-01<br>806461-02 |
| B            | 7.15/202                          |                 |                     | X            | NONE            | B            | 806477-02                   | Small Bag   | 54 in             | 806468-01<br>806465-01 |
| C            | 4.25/120                          |                 |                     |              |                 | C            | 806477-03                   | Small Bag   | 54 in             | 806480-01<br>806466-01 |
|              |                                   |                 |                     |              |                 | D            | 806477-04                   | Small Bag   | 69 in             | 806483-01<br>806461-02 |
|              |                                   |                 |                     |              |                 | W            | 806478-02                   | Large Bag   | N/A               | N/A                    |
|              |                                   |                 |                     |              |                 | X            | 806478-01                   | Small Bag   | N/A               | N/A                    |
|              |                                   |                 |                     |              |                 | Y            | NONE                        | N/A         | N/A               | N/A                    |

\*Dedicated for use on Airbus. For other aircraft applications, please contact AVOX Systems.

CYLINDER SPECIFICATIONS

| Callout Code | Cylinder Capacity<br>cu. ft. (liters) | Charged Weight<br>(cylinder only)<br>lbs. (Kg) | NOMINAL DIMENSIONS in. (mm) |                  |                |                |                |                |                |
|--------------|---------------------------------------|------------------------------------------------|-----------------------------|------------------|----------------|----------------|----------------|----------------|----------------|
|              |                                       |                                                | A                           | B                | C              | D              | E              | F              | G              |
| A            | 11.0<br>(311.5)                       | 3.10<br>(1.41)                                 | 3.56<br>(90.4)              | 22.15<br>(562.6) | 4.0<br>(101.6) | 2.74<br>(69.5) | 3.21<br>(81.5) | 1.61<br>(40.9) | 1.63<br>(41.5) |
| B            | 7.15<br>(202.5)                       | 2.40<br>(1.09)                                 | 3.56<br>(90.4)              | 16.68<br>(423.7) | 2.0<br>(50.8)  | 2.74<br>(69.5) | 3.21<br>(81.5) | 1.61<br>(40.9) | 1.63<br>(41.5) |
| C            | 4.25<br>(120.4)                       | 1.56<br>(0.71)                                 | 3.56<br>(90.4)              | 12.56<br>(319.0) | 2.0<br>(50.8)  | 2.74<br>(69.5) | 3.21<br>(81.5) | 1.61<br>(40.9) | 1.63<br>(41.5) |



| REGULATOR ASSEMBLY |             | FLOW SETTINGS (LPM) |             |              |             |              | ALTITUDE SETTING |                | OUTLET STYLE |                    |
|--------------------|-------------|---------------------|-------------|--------------|-------------|--------------|------------------|----------------|--------------|--------------------|
| Callout Code       | Thread Type | Callout Code        | 1st Setting | Callout Code | 2nd Setting | Callout Code | Callout Code     | Feet (meters)  | Callout Code | Part Number        |
| A                  | 3/4-16 UNF  | A                   | 2.0         | C            | 4.0         | X            | C                | 15,000 (4,572) | D            | 806461-02 (90° AN) |
|                    |             | C                   | 4.0         | X            | 0.0         |              |                  |                |              |                    |

The POCA can be made available with additional cylinder sizes, regulator outlet configurations and oxygen-flow selections to meet specific aircraft requirements.